Homework 5\_1 Conversion

# Vocabulary

CHAR = Used for text and character data of fixed length, including numbers, dashes, and special characters.

fm = Used to remove padded blanks or to suppress leading zeros

Functii de conversie = Functions that convert a value from one datatype to another.

NUMBER = Used to store variable-length numeric data.

VARCHAR2= Used for character data of variable length, including numbers, special characters, and dashes.

DATE = Used for date and time values.

TO\_CHAR = Converts dates or numbers to character strings with optional formatting

RR = Century value depends on the specified year and the last two digits of the current year

TO\_NUMBER = Converts a character string containing digits to a number with optional formatting

DD = Numeric day of the month

TO\_DATE = Converts a character string representing a date to a date value with optional formatting

# Try It / Solve It

1. List the last names and birthdays of Global Fast Food Employees. Convert the birth dates to character data in the Month DD, YYYY format. Suppress any leading zeros.

SELECT last\_name, TO\_CHAR(birthdate,'fmMonth dd, YYYY') AS Birthdate

FROM f\_staffs;

1. Convert January 3, 04, to the default date format 03-Jan-2004.

SELECT TO\_DATE('January 3,04','Month dd,RR')

FROM DUAL;

1. Format a query from the Global Fast Foods f\_promotional\_menus table to print out the start\_date of promotional code 110 as: The promotion began on the tenth of February 2004.

SELECT TO\_CHAR(start\_date,'fmddthsp "of" Month,YYYY')

FROM f\_promotional\_menus

WHERE code = 110;

1. Convert today’s date to a format such as: “Today is the Twentieth of March, Two Thousand Four”

SELECT CONCAT('Today is the ', TO\_CHAR(SYSDATE,'fm ddthsp "of" Month, Year'))

FROM DUAL;

1. List the ID, name, and salary for all Global Fast Foods employees. Display salary with a $ sign and two decimal places.

SELECT employee\_id, first\_name, last\_name, TO\_CHAR(salary,'$99999.99') AS "Salary"

FROM employees;

1. Ellen Abel is an employee who has received a $2,000 raise. Display her first name and last name, her current salary, and her new salary. Display both salaries with a $ and two decimal places. Label her new salary column AS New Salary.

SELECT first\_name, last\_name, salary, TO\_CHAR(salary + 2000, '$999999.99') AS "new salary"

FROM employees

WHERE first\_name = 'Ellen' and last\_name = 'Abel';

1. On what day of the week and date did Global Fast Foods’ promotional code 110 Valentine’s Special begin?

SELECT TO\_CHAR(start\_date, 'fmDay ddth Mon, YYYY')

FROM f\_promotional\_menus

WHERE code = 110 and name = 'Valentines Special';

1. Create one query that will convert 25-Dec-2004 into each of the following (you will have to convert 25-Dec-2004 to a date and then to character data):

December 25th, 2004

DECEMBER 25TH, 2004

25th december, 2004

SELECT TO\_CHAR(TO\_DATE('25-Dec-2004','ddth Month ,yyyy'), 'Month ddth,YYYY')

FROM DUAL;

SELECT UPPER(TO\_CHAR(TO\_DATE('25-Dec-2004','ddth Month ,yyyy'), 'Month ddth, YYYY'))

FROM DUAL;

SELECT LOWER(TO\_CHAR(TO\_DATE('25-Dec-2004','ddth Month ,yyyy'), 'ddth Month,YYYY'))

FROM DUAL;

1. Create a query that will format the DJs on Demand d\_packages columns, low-range and high-range package costs, in the format $2500.00.

SELECT TO\_CHAR(low\_range, '$99999.99') AS "Low Range", TO\_CHAR(high\_range, '$99999.99') AS "High Range"

FROM d\_packages;

1. Convert JUNE192004 to a date using the fx format model.

SELECT TO\_DATE('JUNE192004','fxMonthDDYYYY') AS "Date"

FROM DUAL;

1. What is the distinction between implicit and explicit datatype conversion? Give an example of each.

Conversia implicita se face automat de catre apex fara a spune inspre cine avem nevoie pentru a converti, in timp ce la conversia explicita precizam la ce tip de data convertim: functiile TO\_CHAR(conversie la caractere), TO\_NUMBER(conversie la nr), TO\_DATE(conversie la data) .

1. Why is it important from a business perspective to have datatype conversions?

Este important pentru a avea datele stocate intr-un mod lizibil si pentru a putea face conversia de date in modul cerut de client.